



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/824,269	04/02/2001	Yoshiyuki Takaku	450100-03144	1000

20999 7590 03/26/2004

FROMMER LAWRENCE & HAUG
745 FIFTH AVENUE- 10TH FL.
NEW YORK, NY 10151

EXAMINER

CASANO, ANGEL L

ART UNIT	PAPER NUMBER
----------	--------------

2182

DATE MAILED: 03/26/2004

8

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/824,269

Applicant(s)

TAKAKU ET AL.

Examiner

Angel L. Casiano

Art Unit

2182

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 05 January 2004.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-16 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-16 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
- 1) ☒ Certified copies of the priority documents have been received.
 - 2) ☐ Certified copies of the priority documents have been received in Application No. _____.
 - 3) ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Response to Amendment

1. The present Office action is in response to Amendment filed 05 January 2004.
2. Claims 1-16 are pending.

Priority

3. The present application claims Priority under 35 U.S.C. 119(a)-(d). Acknowledgement is made of Priority date set as 04 April 2000.

Drawings

4. Previous Objections to the Drawings have been overcome with the corrections filed in the present Amendment.

Specification

5. The title of the invention is still not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.

Claim Rejections - 35 USC § 103

6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Art Unit: 2182

7. Claims 1-16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Gilhooley et al. [GB 2275800 A] in view of Staats [US 6,618,750 B1].

Regarding claim 1, Gilhooley et al teaches an information processing system. The cited reference includes a control device as well as sub-information processing devices (see Figure 1). Figures 1 and 10-13 from the cited disclosure expose a plurality of terminals for connecting devices. Gilhooley et al teaches storing name data, indicating the name of the terminals as well as name data transmission means (see Page 9, lines 10-12; Page 21, "claim 2"). Name data is received and displayed in the cited reference (see Page 20). Although the cited disclosure by Gilhooley et al does not explicitly include an *amplifier*, it does teach a processing device for *amplifying* the signals received from the terminals (see Page 6, lines 7-8). However, the cited prior art does not explicitly teach a *serial* bus as communication means for the system. In consideration of this aspect of the claim, Staats teaches an information processing system (see "Abstract") including a main information device (inherent, see "local node") to be controlled (see "controlling application"). The cited information processing device includes terminals for connecting the sub-information processing devices (see Fig. 2) with a predetermined connection (serial bus, see "IEEE 1394"). One of ordinary skill in the art would have been motivated to specify a serial bus as part of the Gilhooley et al. system. Specifically, Staats explicitly exposes that this type of serial bus is "the convergence bus bringing together the worlds of PC and digital consumer electronics" (see col. 1, lines 14-20). Therefore, one of ordinary skill in the art would have been motivated to use the digital interface of choice for consumer digital audio/video applications.

Art Unit: 2182

As for claim 2, Gilhooley et al. teaches a control device (see Figures 1, 10-13). The reference also teaches selection means for selecting the name of the terminal corresponding to a user's input operation (see Abstract; Pages 2-3). Name data is received and displayed in the cited reference (see Pages 3 and 20).

As for claim 3, Gilhooley et al. does not explicitly teach memory means for changing the name data. Nonetheless, it does teach *confirmation* of the name data (see Page 2, line 25; Fig. 3A). The cited information is stored after is it confirmed (Fig. 3A). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made that the user would have been able to *change* instead of *confirming* the identification information, for the purposes of controlling the applications.

Regarding claim 4, Gilhooley et al teaches an information processing system. The reference includes a control device (see Figure 1). Figures 1 and 10-13 from the cited disclosure expose a plurality of terminals for connecting devices. Gilhooley et al teaches storing (*memorizing*) name data, indicating the name of the terminals as well as name data transmission means (see Page 9, lines 10-12; Page 21, "claim 2"). Name data is received and transmitted in the cited reference (see Page 20). Although the cited disclosure by Gilhooley et al does not explicitly include an *amplifier*, it does teach a processing device for *amplifying* the signals received from the terminals (see Page 6, lines 7-8). However, the cited prior art does not explicitly teach a *serial* bus as communication means for the system. In consideration of this aspect of the claim, Staats teaches an information processing system (see "Abstract") including a main information device

Art Unit: 2182

(inherent, see “local node”) to be controlled (see “controlling application”). The cited information processing device includes terminals for connecting the sub-information processing devices (see Fig. 2) with a predetermined connection (serial bus, see “IEEE 1394”). One of ordinary skill in the art would have been motivated to specify a serial bus as part of the Gilhooley et al. system. Specifically, Staats explicitly exposes that this type of serial bus is “the convergence bus bringing together the worlds of PC and digital consumer electronics” (see col. 1, lines 14-20). Therefore, one of ordinary skill in the art would have been motivated to use the digital interface of choice for consumer digital audio/video applications.

As for claim 5, Gilhooley et al. teaches a control device (see Figures 1, 10-13). The reference also teaches selection means for selecting the name of the terminal corresponding to a user’s input operation (see Abstract; Pages 2-3). Name data is received and displayed in the cited reference (see Pages 3 and 20). However, the cited reference does not explicitly teach *switching an input/output*, as claimed. Staats teaches a system where it chooses (e.g. switches) the terminal indicated by the identification data for input/output purposes. One of ordinary skill in the art would have been motivated to combine the cited references in order to use the digital interface of choice for consumer digital audio/video applications.

As for claim 6, Gilhooley et al. does not explicitly teach memory means for changing the name data. Nonetheless, it does teach *confirmation* of the name data (see Page 2, line 25; Fig. 3A). The cited information is stored after it is confirmed (Fig. 3A). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made that the user would

Art Unit: 2182

have been able to *change* instead of *confirming* the identification information, for the purposes of controlling the applications.

Regarding claim 7, this is oriented to the control device (see *computer*) in the information processing system formed by connecting a plurality of information processing devices and a control device. The combination of references (Gilhooley et al. in view of Staats) teaches the information processing system including the claimed control device (see rejections for claims 1-6). Therefore, the combination of prior art teaches the control device, as disclosed in the present claim. Claim 7 is rejected under the same basis.

As for claim 8, this is oriented to the control device in claim 7. As stated above, the combination of prior art teaches the information processing system including the claimed control device. Accordingly, claim 8 is rejected under the same rationale.

Regarding claim 9, this constitutes the information processing method in an information processing system comprised of a main information processing device, a control device, and a plurality of sub-information processing devices to be connected to the main information processing device. As stated above, Gilhooley et al. in view of Staats teaches the information processing system presented in claims 1-3. Therefore, the references teach the method directed to the cited system. Claims 1-3 have been rejected in the present Office action and claim 9 is rejected under the same rationale.

Art Unit: 2182

As for claims 10 and 11, these are oriented to the information processing method as defined in claim 9. Claim 9 is being rejected in the present Office action, since it directs to the method for the information processing system disclosed by the combination of prior art. Accordingly, claims 10 and 11 are rejected under the same rationale.

Regarding claim 12, this discloses an information processing method for the information processing device in the information processing system disclosed by the combination of references and rejected in claims 4-6. Claims 4-6 are rejected as being unpatentable over Gilhooley et al. in view of Staats. Accordingly, the cited combination teaches the information processing method for the cited device in the system. Claim 12 is therefore rejected under the same rationale.

Claims 13 and 14 constitute the information processing method for the device in system. As stated above, the combination of references teaches the information processing device in the information processing system, as claimed. The present claims are therefore rejected under the same rationale.

Regarding claim 15, this discloses a control method for the control device in the information processing system taught by the combination of references and rejected in claim 7. Claim 7 is rejected as being unpatentable over the combination of prior art, since the cited art teaches the control device. Accordingly, it also teaches the control method for the cited device in the processing system. Therefore, the present claim is rejected under the same rationale.

Art Unit: 2182

In consideration of claim 16, this constitutes the control method for the control device in the information processing system disclosed by the combination of references and previously rejected in claim 8. The combination of prior art teaches the control device in the information processing system, as claimed. The present claim is rejected under the same rationale.

Response to Arguments

8. Applicant's arguments with respect to claims 1-16 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

9. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure:

- Frederick et al. [US 6,314,479 B1] teaches a control scheme for facilitating master-slave control of the display by the computer.
- Brunet et al. [US 6,061,751] teaches a computer system for processing information in a read channel.
- Costa et al. [US 5,887,067] teaches audio communication system for a network.
- Gineys [US 5,581,606] discloses a streamer apparatus for transferring data between a storage device and a digital audio storage device.
- Sato [US 5,579,123] teaches track judgment apparatus for discriminating.
- Nomura [JP 06251500 A] teaches information display device for dealing with audio.
- TSUTSUMITAKE [JP 06175942 A] teaches multimedia electronic conference device.

Art Unit: 2182

- Tanaka et al. [US 4,998,245] teaches information transmission system.

10. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the date of this final action.


Any inquiry concerning this communication or earlier communications from the examiner should be directed to Angel L. Casiano whose telephone number is 703-305-8301. The examiner can normally be reached on 9:30-6:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jeffrey Gaffin can be reached on 703-308-3301. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Art Unit: 2182

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

alc
19 March 2004



JEFFREY GAFFIN
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2100